## IN THE CLAIMS

Please amend the claims as follows:

- 1. (Currently Amended) A casting apparatus comprising:
- a die which that has an opening section above the die so as to pour a molten metal therefrom;
  - a plate-shaped heater disposed above the die horizontally;
- a gas supplying section which supplies configured to supply an inert gas to a surface of the molten metal;
- a lid which is disposed horizontally between the surface of the molten metal and the heater; and
- a lid moving structure which moves configured to rotatably move the lid relatively relative to the die and controls configured to control an opening amount of the opening section above the die,

wherein:

the lid moving structure controls configured to control a flow rate of an inert gas exhausted from a surface of the molten metal so that the flow rate is determined in accordance with a flow amount of the inert gas supplied from the gas supplying section and the opening amount of the opening section above the die; and

the flow rate of the inert gas is in a predetermined range.

2. (Currently Amended) A casting apparatus according to claim 1, wherein the lid moving structure adjusts is configured to adjust the opening amount according to a flow amount of the inert gas.

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3. (Currently Amended) A casting apparatus according to claim 1, wherein the lid moving structure has a structure for moving configured to move the lid vertically or horizontally relatively relative to the die vertically, horizontally, or rotatively.

4. (Currently Amended) A casting apparatus according to claim 1, wherein:

the molten metal is a molten silicon; and

at least a bottom surface of the lid is coated by an a non-reactive material with a silicon oxide gas or a silicide.

- 5. (Canceled)
- 6. (Currently Amended) A casting apparatus according to claim 1, wherein the plateshaped heater is supported in parallel with the lid.
  - 7. (Currently Amended) A casting apparatus comprising:

a die which that has an opening section above the die so as to pour a molten metal therefrom;

a plate-shaped heater disposed above the die horizontally;

a gas supplying section which supplies configured to supply an inert gas to a surface of the molten metal;

a lid which is disposed horizontally between the surface of the molten metal and the heater; and

a lid moving structure which moves configured to move the lid relatively relative to the die and controls configured to control an opening amount of the opening section above the die,

wherein:

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the lid comprises a first plate having at least a first hole, and an adjacent second plate having a corresponding number of second hole; and

the first plate is configured to rotate relative to the second plate such that each first hole coincides with each second hole.

8. (Currently Amended) A casting apparatus according to claim 1, further comprising an additional heater disposed below the die.

9. (Currently Amended) A casting apparatus comprising:

a die having an opening section;

a heater disposed above said die;

a gas supplying section configured to supply an inert gas to a surface of molten metal provided within said die;

a lid configured to be disposed between the surface of the molten liquid and said heater; and

means for adjusting an opening amount of said opening section according to a flow amount of the inert gas to the surface of the molten metal,

wherein:

the means for adjusting is configured to rotate said lid relative to said die;

the means for adjusting controls a flow rate of an inert gas exhausted from a surface of the molten metal so that the flow rate is determined in accordance with the flow amount of the inert gas supplied from the gas supplying section and the opening amount of the opening section above the die; and

the flow rate of the inert gas is in a predetermined range.

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10. (Previously Presented) The casting apparatus according to claim 9, wherein said means for adjusting adjusts said opening amount of said opening section wherein a flow speed of the inert gas flowing out of the opening section between said lid and said die is constant.

- 11. (Previously Presented) The casting apparatus according to claim 10, wherein said means for adjusting increases said opening amount of said opening section when the flow speed of the inert gas flowing out of the opening section between said lid and said die increases, and decreases said opening amount of said opening section when the flow speed of the inert gas flowing out of the opening section between said lid and said die decreases.
- 12. (Previously Presented) The casting apparatus according to claim 9, wherein said means for adjusting adjusts said opening amount of said opening section by moving said lid relative to said die.
- 13. (Previously Presented) The casting apparatus according to claim 12, wherein said means for adjusting adjusts said opening amount of said opening section by vertically moving said lid relative to said die.
- 14. (Previously Presented) The casting apparatus according to claim 12, wherein said means for adjusting adjusts said opening amount of said opening section by horizontally moving said lid relative to said die.
- 15. (Previously Presented) The casting apparatus according to claim 12, wherein said means for adjusting adjusts said opening amount of said opening section by rotating said lid relative to said die.
  - 16. (Previously Presented) A casting apparatus comprising:

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a die having an opening section;

a heater disposed above said die;

a gas supplying section configured to supply an inert gas to a surface of molten metal

provided within said die;

a lid configured to be disposed between the surface of the molten liquid and said

heater; and

means for adjusting an opening amount of said opening section according to a flow

amount of the inert gas to the surface of the molten metal,

wherein:

said lid comprises a first plate having a first hole, and an adjacent second plate having

a second hole, and

said means for adjusting adjusts said opening amount of said opening section by

rotating said first plate relative to said second plate such that said first hole coincides with

said second hole.

17. (Previously Presented) The casting apparatus according to claim 9, further

comprising an additional heater disposed below said die.

18. (Canceled)

19. (Canceled)

20. (Previously Presented) A casting apparatus according to claim 1, wherein the

predetermined range of the flow rate of the inert gas is controlled so that impurities are not

included in the molten metal and the lid does not move due to the inert gas flow.

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